

Quiz1 (out of 10)

✓ Good

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10

Student name:

.....Student ID#:

..... Section:1

NOTES:

1. Show all details of your answer.
2. Return a clean copy (without draft).

Exercise:

Consider the following real world problem: "hospital staff management".

1. Briefly explain how this is an Operation Research problem?

1- ~~there~~ we have a decision to make &
there is a number of customer to provide them a service.

2- we have to optimize a performance &
Maximize number of customers, minimize the waiting hours.
(Maximization or Minimization)

3- there is a limited Resources &
we're limited by the Number of working hours.

2. If you were an operation research engineer, how would you solve the above problem?

1- decision variable & how many patients (customer) to provide him
a service for each Doctor (employee).

2- objective function (mathematical function) & Minimize the waiting
hours for each customer.

3- Constraints & Number of working hours for each employee.

Q1
Answer

Q2 answer

- 1 - Defining the problem & gathering Data
- 2 - formulating a mathematical Model
- 3 - Deriving the solutions for the model used
- 4 - Testing the model
- 5 - ~~A~~ Preparing the model to Apply
- 6 - Implementation

you have to detail your answer.